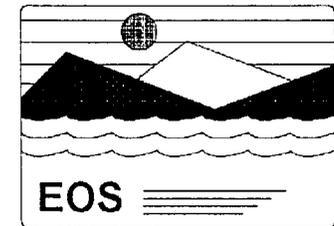




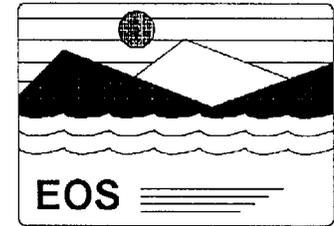
BRIEF STATUS SUMMARY



- ENGINEERING MODEL BUILDUP WILL BE COMPLETE DEC 1994
- EM SYSTEM-LEVEL TESTING WILL RUN FROM JAN 1995 TO MAR 1995
- LEE TESSMER HAS REPLACED LLOYD CANDELL AS PROGRAM MANAGER AT SBRC
- GOOD QUARTERLY MANAGEMENT REVIEW AT SBRC ON 13, 14 SEP 1994
- MASS, POWER, & DATA RATE REMAIN WELL WITHIN SPEC
- MAJOR PROTOFLIGHT MODEL PROCUREMENTS UNDERWAY
- SBRC SCHEDULE: EM & PFM DELIVERED ON TIME; GSFC HOLDS 9 MONTHS SLACK
- BERYLLIUM STRUCTURAL MODEL COMPLETED AND SUCCESSFULLY TESTED
- RADIATIVE COOLER TESTED; DEMONSTRATED EXCELLENT PERFORMANCE
- GSFC HAS AUTHORIZED SBRC TO BEGIN WORK ON FLIGHT MODEL 2 (AM-2 MISSION)
- SBRC WILL SUBMIT A REPLAN COST PROPOSAL IN OCTOBER,
TO REFLECT THEIR CURRENT EXPECTED COSTS TO COMPLETE
- HUGHES IS CREATING HUGHES AEROSPACE & ELECTRONICS COMPANY (HAEC)
SBRC WILL BE CLOSED WITHIN ABOUT 18 MONTHS
MODIS WILL MOVE TO HAEC ELECTRO-OPTICAL SYSTEMS, EL SEGUNDO, CA



GSFC WORK ON MODIS

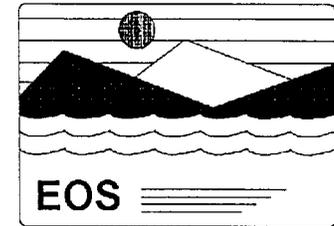


GSFC HAS BEEN AN ACTIVE PARTICIPANT IN MODIS, CONDUCTING PARALLEL WORK, INCLUDING:

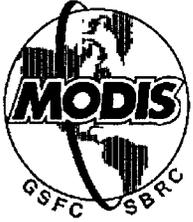
- OPTICAL ANALYSIS OF GHOSTING
- THERMAL ANALYSIS OF COOLER AND ENTIRE INSTRUMENT
- STRUCTURAL ANALYSIS OF THE COOLER AND ENTIRE INSTRUMENT
- IDENTIFYING APPROACHES TO BALANCE THE SCAN MIRROR
- REVIEWING ALMOST ALL SBRC PLANS AND PROCEDURES
- MONITORING/SUPPORTING SUBSYSTEM TESTING AT SBRC
- PREDICTION OF ON-ORBIT STRUCTURAL/THERMAL/OPTICAL PERFORMANCE
- RECOMMENDED IMPROVED SETUPS FOR COOLED DETECTOR TESTS
- OPTICAL TOLERANCE ANALYSIS
- ANALYSIS OF FILTER TEST DATA
- DESIGN AND FABRICATION OF EM THERMAL BLANKET
- REVIEW OF KINEMATIC MOUNTS LED TO IMPROVED S/C-PROVIDED DESIGN
- RECOMMENDED CHANGES TO ELECTRONIC DESIGN & PARTS
- CONTAMINATION ANALYSIS OF SCAN MIRROR REFLECTIVITY



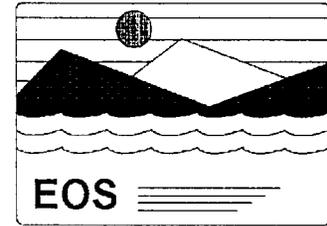
TOP CONCERNS



- **HUGHES REORGANIZATION; IMPACT ON MODIS OF MOVE TO EL SEGUNDO**
WILL LOSE SOME SKILLED MANPOWER, COST, SCHEDULE
- **PERFORMANCE WITHIN COST AND SCHEDULE**
RECEIVING CONTINUOUS ATTENTION; DESCOPE; REPLAN
- **SOLAR DIFFUSER VIEWPORT STRAY LIGHT**
SUNLIGHT WILL ILLUMINATE (BLACK) CAVITY WALLS
- **SCATTERED LIGHT FROM OPTICS**
ANALYZING SCATTER OFF MIRRORS AND LENSES
- **CONTAMINATION OF MIRRORS**
WILL CAUSE INCREASED SCATTERED LIGHT
- **SPECTRAL BAND REGISTRATION**
ENGINEERING MODEL REGISTRATION IS GOOD IN SUBSYSTEM TESTS
- **HgCdTe PC DETECTOR PERFORMANCE (CROSSTALK)**
MORE ACCURATE MEASUREMENTS; CANNOT AFFORD NEW DETECTOR DEVELOPMENTS
- **HgCdTe PV DETECTOR YIELD**
YIELD TO BE DETERMINED IN OCTOBER 1994; EXPECT SUFFICIENT YIELD FOR PFM
- **SCAN MIRROR BEARING LIFE**
BEARING AND LUBRICANT TESTS RUNNING NOW, GOOD SO FAR



OLD CONCERNS REDUCED OR ELIMINATED



- **BERYLLIUM MAINFRAME SURVIVAL**
VIBRATION TESTING SUCCESSFULLY COMPLETED ON STRUCTURAL MODEL
- **HgCdTe PV DETECTOR OPERABILITY (INDIUM BUMP CONNECTIONS)**
CURRENT DESIGN SURVIVED 150 THERMAL CYCLES TO LN² TEMPERATURE
- **PC DETECTOR CRACKING**
MORE REALISTIC TEST EQUIPMENT SETUP & MODIFIED BONDING METHOD HAS SOLVED
- **FPA READOUT INTEGRATED CIRCUITS; HUGHES CARLSBAD IS CLOSING IN 1994**
HUGHES CARLSBAD PRODUCED GOOD UNITS; HAVE ENOUGH FOR ALL MODIS MODELS
- **RADIATIVE COOLER TEMPERATURE MARGIN**
THERMAL VACUUM TESTING OF THE COOLER HAS DEMONSTRATED GOOD MARGIN
- **OPTICAL BACKSCATTER (GHOSTING)**
DESIGN COMPLETED AND IN FABRICATION
- **PLESSEY MICROPROCESSOR PERFORMANCE**
LATEST REVISION I PART MEETS MODIS REQUIREMENTS; DELIVERY STILL AN ISSUE
- **FOCAL PLANE ASSEMBLY FLEX CABLES**
GOOD CABLES ARE NOW IN HAND
- **INSTRUMENT MASS**
SBRC MASS CONTROL TEAM MET REGULARLY IN EARLY 1993